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COMPILED BY

Lt.-Col. W. P. C. TENISON, D.S.O.

[Russian literature by Professor A. I. Ivanov]

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Migration : General.—**Dorst** (3); Historical background, **Cooke, C. H.**; Thermal convection across Sahara, **Bowbeer & Stewart**; Riddles, **de Vos**; Palearctic ducks and waders in tropical Africa, **Dorst** (2); Radar's contribution, **Eastwood**; Mediterranean notes, **Elliott, H. F. J.**; "Reversed direction", **Erz**; Calculation of the "bee line" between places, **Fredga**; Effectiveness of radar, **Graber & Hassler**; Calculation of distances flown by ringed birds, **Kern**; Radar evidence of orientation, **Lack** (1); Annual periodicity, **Marshall, A. J.**, **Wolfson, A.**; Molt and migration, **Mikheev**; Radioactivity of northern birds, **Niethammer & Sauerbeck**; Studying migration by moon-watching, **Nisbet** (1); French account, **Paquet**; An observatory aviary, **Richardson**; Reversed migration, **Seilkopf**; South American changed habits, **Tour**; Experimental stimulation, **Weise**; Autumn migration in Great Britain, **Williamson** (5); "Leading line" behaviour, **Williamson** (8); Physical limitations on migration, **Yapp** (1).

Migration : Single species.—European thrushes, **Ashmole, M. J.**; Bobolink, **Hamilton, W. J. III**; Common Tern, **Lebedeva**; Waterfowl in Mangyshlak peninsula, **Molodovskii**; Woodpigeon, **Murton & Ridpath**; Hawk migrations around the Great Lakes, **Pittinghill**; Corvidae in Volga basin, **Prikonskii, Nekrasov**; Geese in France, **Roux**; Spoonbill, Glossy Ibis and Herons, **Sapetina**; Lapwing in Volga basin, **Sapetina**; Black-headed Gull, **Sapetina** (1); Bullfinch in U.S.S.R., **Sapetina** (2); Caspian Tern, **Shevareva**; Wind effect on swallows, **Schweppen-burg**; Bean Goose and Whooper Swan in Estonia, **Zhelinin**.

Migration : Regional Observations.—Radar observations in Cyprus, **Adams, D. W. H.**; Waterfowl wintering in Danube delta, **Andone & Pashkovskii**; Visible migration in Netherlands, **Bloem**; Monts des Kours, Sahara, **Blondel**; Gibraltar, **Brosse**; Southern Sweden, **Carlsson**; Bretolet Pass, **Crousax**; Cape Clear, Co. Cork, **Dobinson**; Radar studies of songbird migration in coastal New England, **Drury & Keith**; Rathlin I., Co. Antrim, **Ennis**; Camargue, **Erard** (1); Autumn migration on Heligoland, **Feeny**; Switzerland, **Géroutet** (3), **Paccaud**; Mortality at Lake Superior, **Green**; West Siberia, **Gyngazov**; Trans-Caribbean migration, **Hailman** (1); Czechoslovakia, **Hudec**; Reptors in eastern Mediterranean, **Kumerloev** (4); Southern North Sea in June and July, **Lack**; Radar films of migration over eastern England, **Lack & Eastwood**; English east coast, **Lack & Parslow**; English inland points, **Dobinson**; Southern England, **Parslow**; Tennessee, **Laskey, M. R.**; Lyon, France, **Lebreton**; Migrants at British weather-ships, **McLean & Williamson**; Spring migration in Sweden by radar, **Mascher, Stott & Wallin**; Mangyshlak peninsula, **Molodovskii**; Mexico, **Phillips, A. R.**; Indigirka delta, **Prikonskii, Beme & Upeniskii**; Zarafshan valley, **Sagitov**; Japan and Okhotsk Seas, **Shuntov**; Lippe, Germany, **Toll** (1); Visible migration at Falsterbo, Sweden, **Ulfstrand**; Bet-Pak-Dala desert in S. Kazakhstan, **Vinokurov**; Mangyshlak peninsula on Caspian sea, **Zaletsev** (1).

Bird Ringing : Methods.—Protection of traps from raptors, **Berger & Hamerstrom**; Waders on sands, **Millin**; Bow-net trap for ducks, **Salyer**; Popular account, **Spencer** (1); Latvia, **Spuris**; Trap for catching doves, **Vauk & Grafe** (2).

Bird-Ringing: Results.—West Africa, **Anon.** (10); Belgium, **Anon.**, **Arnhem**, **Verheyen** (2); Biarritz, **Barriety**; Spain, **Bernis**; Portugal, **Tait**; Devon, **Cabot**; Reflections, **Dachy** & **Delmée**; Camargue, **Hoffmann**; Norway, **Holgersen** (1); Denmark, **Johansen**; Belgium, **Lippans**; Hungarian recoveries, **Keve**, **Patkai**; California, **McClure**; Florida, **Loftin**; Finland, **Nordström**; Argentina, **Olrog**; Netherlands, **Perdeck**; Rook in Ryazan province, **Prilionskii** & **Sapetin**; Black-headed Gull, **Radford**; Yugo-Slavia, **Rucner-Kroneisl**; Black-headed Gull in Central Russia, **Sapetina** (1); Sand Martin in Central Russia, **Shevareva** & **Sapetin**; Great Britain, **Williamson** & **Spencer**; Note, **Young**, H.; Oka preserve, **Zykova**.

Ecology: Regional Studies.—Monts des Ksour, Sahara, **Blondel** (1); A montane rainforest in Southern Rhodesia, **Brugger**; Reduced interspecific competition in Bermuda, **Crowell** (1); In scrub under tall trees, **Ferry**; Effect of fires in a Florida swamp, **Cypert**; Tundra west of N. Urals, **Gladkov** (1); Feeding habits in tropical rain forest, **Harrison**, J. L.; Kirghiz Range (Tian Shan), **Kuznetsov**; Tian Shan (Kirghiz range), **Kuznetsov** (1); Study of boreal shorebirds summering in Florida, **Loftin**; Gulf of Morbihan, **Maillet** & others; In town gardens, **Merkel**, M.; Social system of American Blackbirds (*Agelaius*), **Orians**; Camargue, **Port**; Slovakian river, **Turček** (1); Guadalquivir delta marshes, **Valverde**.

Population Studies.—Passerines in a swamp in Massachusetts, **Anderson** & **Maxfield**; Breeding success at a mixed "heronry" in Ghana, **Bowen** & others; Ducks and geese, **Boyd**; Partridges, **Blank** & **Ash**; Red Grouse, **Jenkins** & **Watson**; Reliability of bird census, **Enemar**; Willow Warbler, **Frieswijk** & **Bresser**; Sea-birds at Murman coast, **Gerasimova**; Eight-year trend in quail and dove call counts, **Golley**; Marking Ruffed Grouse, **Gullion**, **Eng** & **Kupa**; Wildfowl nest traps, **Miller**, W. R.; Hazel-Grouse in Karelia, **Ivanter**; Census of geese in Denmark and Sweden, **Jensen** & others; Tropical species diversity, **Klopfer** & **MacArthur**; Backtag markers for pheasants, **Labisky** & **Mann**; Claptrap for Sand Grouse, **Christensen**; Whooper Swan in Urals, **Danilov**; Pied Flycatcher, **Likhachev** (1); Prediction from habitat measurements, **MacArthur** & **Preer**; Techniques, **Nef** (1); Wild Duck counts in Sweden, **Nilsson** (2); Rook in Central Russia, **Osmolovskaya**; Capercaillie, Crane and Grey Heron in Central Russia, **Prilionskii** & **Teplov**; Waterfowl in the Oka basin, **Ptushenko**; Sand Martin in Central Russia, **Shevareva** & **Sapetin**.

Conservation.—Flamingo rescue, **Anon.** (6); Cornell University's sanctuary, **Allen**, A. A.; Argentina, **Aramburu** & others; Rest places for migrants, **Buck**; Fresh-water impoundment in Ontario, **Boyer** & **Devitt**; Chimbu plume traders in New Guinea, **Bulmer**; Migratory birds convention act, **Canada**; Australian rare fauna, **Condon**; Thrushes in East Germany, **Creutz** (4); Bear River, Utah, **Cruikshank**; Winter quarters of birds at S.E. Caspian, **Dobrokhoto**; Germany, **Drost**; New Zealand, **Edgar**; Bird sanctuary in Transvaal, **Farkas**; Greenland, **Gam** & **Rosendahl**; Birds killed in fishing nets in Iceland, **Gardarsson**; Biological control of waterweeds, **Grizzel** & **Neely**; Wildfowl in Europe, **Gudmundsson** & others; A gravel pit reserve, **Harrison** & **Olney**; Cape Town, South Africa, **Hey**; Egrets in Camargue, **Hoffmann** & **Kunz**; Managed

goose hunting in Wisconsin, **Hunt** & others; Impoundments for wildfowl in Michigan, **Kadlec**; Estonia, **Kumari**, **Karpovitch** & **Skokova**; In house and home, **Löhr** (5); Nest-boxes attacked by woodpeckers, **Mountford**; Eagles and grasslands, **McMillan**; Mauritania, **Nauropis** (2); Saline soil and brackish waters, **Neely**; New Zealand, **Nelson**, R. C.; Artificial duck nests, **Oleinikov**; Isla Raza, Gulf of California, **Peterson**; Reserves for waterfowl, **Philippone**; French marshes, **Roux**, F. (1); Prairie nesting ducks, **Salyer**, **Cringan** & others; Duck hunting control, **Sieh** & **Aspelmeier**; Bird sanctuary, **Spuris** & **Shmit**; Insectivorous birds in Moscow, **Strokov**; Prairie management techniques, **Tester** & **Marshall**; Resources of the Soviet Arctic, **Uspenskiy**.

Economics.—Effect of DDT on sperm production in fowl, **Albert**; Seed-dressings residue in eggs, **Ash** (1); Woodpeckers and spruce beetles, **Baldwin**, P. H.; Toxicity of a herbicide, **Bergstrand** & **Klimstra**; Swans and fisheries, **Brennecke**; Spray planes, and dead wildlife, **Carson**; Effects of moth control spraying, **Douglass**; Fish-eating birds and salmon in Canada, **Elson**; Management of pheasants, **MacMullen**; ditto quail, **Frye**; ditto Mourning Dove, **Peters**, H. S.; Birds eating corn borers, **Fankhauser**; Control of Spanish Sparrow, **Gavrilov** (1-4); Ecology of birds of Kainfaroa Forest, New Zealand, **Gibb**; Sea birds as indicator for whalers, **Gudkov**; Importance of genotype and environmental factors in poultry, **Hull** & **Gowe**; Waterfowl and crop losses, **Hammond**, **Stephen**; Control by gametocides, **Davis**, D. E.; Russian study of sparrow, **Ilenko**; Birds and fruit-trees, **Lehmann** (1); Wild turkeys in Missouri, **Lewis**; Red-winged Blackbird in Virginia, **Meanley**; Toxic chemicals and bird ecology, **Moore**, N. W.; Forest insects and birds, **Osmolovskaya**; Sparrows control in Tadzhikistan, **Popov**; Birds in Argentina, **Pergolani de Costa**; Food of nestlings of forest birds, **Prkof'eva**; Bird repellants for seeds, **Royall** & others; Ichthyophagous birds, **Skokova**; Fruit blossom damage by Redpoll in New Zealand, **Stenhouse**; Birds' control of pine-looper moth infestation, **Tichy** & **Kudler**; Quail management on strip-mined lands, **Vohs** & **Birkenholz**; Artificial insemination of ducks, **Watanabe**.

Introduction and Naturalisation.—Red Junglefowl in the Philippines, **Parkes** (1); Interaction of birds in New Zealand, **Turbott**.

Aviculture.—**Creutz**; **Hackinger**; **Steinbacher** & **Wolters**; Pheasants, **Gerrits**; Pheasants, **Johnson**, F. E. B., **Jones**, T.; Breeding of Condors, **Lint**; Colies, **Lint** (2); Tragopan Pheasants, **Mark**; Births and deaths in Paris Zoo, **Nouvel**, **Rinjard** & **Pasquier**; Budgerigar breeding, **Rogers**; Frankfurt Zoo, **Scherpner**.

Longevity.—Kite 24 years old, **Burnier**; Oystercatcher 34 years old, **Goethe** & **Kramér**; South African finches, **Hindley**; South African records, **Middlemiss** & **Skead**.

Parasites.—Of Pacific Fulmar, **Dunn**; Ticks, **Gorchakovskaya** & **Chunikhin**; Transfer of ticks and fleas by birds, **Gusev** & others; Trematoda, **Gvozdev**; Insects in birds' nests, **Hicks**; Helminths in gulls, **Kozupko**; Helminths of the Hooded Crow, **Lugovoi** & **Kurochkin**; Ticks and mites, **Meklenburtsev** (1); Relationship of ectoparasite load to host size, **Mohr** & **Stumpf**; Trematoda in *Rallidae*, **Pav-**

lov; Trematodes of birds, **Bykhovskaya-Pavlovskaya**; Beetles in birds' plumage, **Sage** (6); On migrating birds, **Worth & Downs**; Birds of prey at Caspian sea, **Zablotskii**.

Enemies and Defence.—Waterfowl and eagle, **Hauri** (1); Kestrel killed by crows, **Sage** (7); Predators and waterfowl, **Khusainov**; Bats occupants of nest-boxes, **Likhachev** (2); How nestlings defend themselves, **Skutch** (5); Significance of bird calls, **Volpio**.

Pathology and Disease.—Mycosis in penguins, **Appleby**; Tumour cells, **Bolognari**; Toxoplasmosis in Sweden, **Borg**; A teal with only one wing, **Capt**; Grebes in Lake Neichatel, **Capt**; Rookeries as foci of some diseases, **Gusev**; Birds contributing to dispersal of ectoparasites, **Gusev** (1); Foot tumour, **Harrison** & **Hovel**; Role of birds in epizootiology of encephalitis, **Herman**; In passerines' skeletons, **Ilijtschew**; Migratory birds as disease carriers, **Janisch**; Western equine virus in migratory birds, **Johnson, H. N.**; Linnets blinded by seeds of bur-marigold, **Langvford**; Blackbird's collapsed eye, **Harris** (2); Eastern encephalitis virus in House Sparrows, **Locke** & others; Finch with mange, **Macdonald, J. W.**; Mass death of terns, **Rowan**; Arbovirus investigations in Alabama, **Stamm** & others; *Salmonella* in waterfowl, **Steiniger**; In Wisconsin waterfowl, **Trainer** & others; Nematodes in Pelecaniformes, **Owre**.

Mortality.—By seed heads, **Alder**; In grass fire, **Hodson**; Secondary DDT poisoning, **Bernard**; European plovers and waders, **Boyd** (1); New Zealand seabirds, **Bull & Boeson**; Magpie killed by porcupine quill, **Carter**; Survival curves of some birds in London Zoo, **Comfort**; Brown Thrasher, **Ferguson**; Robin caught in burdock, **Gárdonyi**; At Minnesota towers, **Greene, Strnad**; Road casualties, **Hodson** (3); Waders caught by cockles and mussels, **Hori** (1); Due to berried bushes on highways, **Johnson, M. L. & S.**; Blow fly larvae, **Lee** & others; Oiled birds, **L'Hardy**; On motor roads, **Martens** (1); At TV tower, **Nero**; Snake and lizard predators, **Pitman**; Waterfowl predation by pike, **Pitman** (1); By snapping turtle, **Pitman** (2); In 1959 winter, **Reichert**; Oiled victims, **Ridder**; Gull hung in tree, **Riley & Miller**; Hurricane Donna, **Robertson & Muller**; Herons killed by hail storm, **Rysgaard**; Owls feeding on young sea-birds, **Saunders, D. R.**; Electric fences, **Tate**; Egret's unusual death, **Weigel**.

III.—DISTRIBUTION

(a) GEOGRAPHICAL

PALAEARCTIC REGION

British Isles.—Anon. (4), **Phillips, A. R.** (3), **Swaine, Wilde**.

England.—Dollis Hill, London, **Simms**; Cheshire, **Bell**; Hertfordshire, **Robson, Gladwin, Lloyd-Evans, Sage** (8); Devlin, **Jenkins & Lloyd-Evans**; Essex, **Parker, M. T., McSweeney**; Middlesex, **Coath, Moxey & Seel, Pickess**; Sidcup, Kent, **Holroyde**; Canterbury, Kent, **Munns**; Croydon, Surrey, **Broadhurst** & others; Sussex, **Ticehurst, Wright**; Winchester, Hampshire, **Cheke** & others;

Isle of Wight, **Stafford**; Dorset, **Bull, A. J.** & others, **Riley & Rooke**; Wiltshire, **Barnes** & others; Marlborough, Wiltshire, **Halliday & Randolph**; Bristol, **Chadwick** & others; Gloucestershire, **Charteris & Swaine**; Warwickshire, **Bradford, Hardman & Lowe**; Coventry, Warwickshire, **Jenkins, J. H.**; Cumberland and Westmoreland, **Stokoe**; Northumberland & Durham, **Bell, Briggs, Coulson**; Yorkshire, **Swabey & Aubrook, Rhodes, Gilpin**; Nottinghamshire, **Trent Valley**; Huntingdonshire, **Tebbutt**; Suffolk, **Beecroft & Curtis, Payn**.

Wales.—Gower, **James, A. F.**; Southwestern, **Lockley**.

Scotland.—Campbell, **J. W.**; Sutherland, **Pennie**.

Ireland.—Cabot (1), **O'Rourke**.

Smaller British Islands.—Lundy, **Anon.** (9), **Ogilvie & Gade**; Skomer I., **Anon.** (8), **Saunders, D.**; St. Kilda, **Waters**; Fair Isle, **Nisbet**; Shetland, **Moussaye**; Farnes Is., **Coulson & Hickling, Hickling, Nisbet**.

France.—Anon. (5), **D'Abadie, Isenmann**; Alpes-Maritimes, **Ferry & Hortigue**; Haute-Savoie, **Lebreton, Formon & Tachet**; Bourgogne, **Vogüé**; Camargue, **Hoffmann, Penot**; Côte d'Azur, **Martens**; Eure-et-Loir, **Labitte**; Finistère, **Viellard**; Haute-Saône, **Erard**; Lorraine, **Hulten**; Marne, **Erard & Menuel**; Morbihan, **Baudouin-Boden & Morio**; Vendée, **Labitte & Languetif**.

Belgium.—Arnhem, **Delvingt, Huyskens & Voet, Nef, Lippens**; Herroelen, **Spaepen**; Limbourg, **Rappe** (1); Spa, **Rappe**.

Netherlands.—Anon. (2), **Bequaert, Block & Spaans, Hens** & others, **Lathbury & Bierman, Philippona, Timmerman, Brakmsma, Knippenberg & Langenhoff, Kate, Kluijver & Voous, Dijk, Perdeck, Ten Kate, Hellebrekers, Cingel, Foyer, Kluyver, Wittgen**.

Luxemburg.—Hulten & Wassenich.

Denmark.—Behrends, **Henningsen, Hansen, Johansen & Bjerring**.

Iceland.—Gardarsson, **Wang, Kowalski**.

Sweden.—Curry-Lindahl, **Ahlin & Lennestedt, Eriksson, Lindberg & Stigh, Pålsson & Flach, Roos, Hogström, Joensen & Preuss, Theman, Wahlstedt, Karlsson, Gerell, Cedergren, Mathiasson, Nilsson, Hartman, Markgren, Mathiasson, Ulfstrand**; Östergötland, **Anden & Hedenström**.

Norway.—Abelsnes, **Holgersen, Myrberget, Nordnes, Nilsson**; Lofoten Is., **Gnaat**; Nordland, **Lovenskiöld & Valeur**; Runday, **Brun**.

Spitzbergen.—Kristoffersen, **Münch**.

Finland.—Pöyhönen, **Soikkeli, Helminen & Viramo, Hilke, Kreuger, Hytönen, Komonen, Pulliainen**.

U.S.S.R. European Territory.—Bolshzemelskaya tundra, **Gladkov** (1); Estonia, **Ling**; Kola peninsula, **Kishchinskii**; Krasnodar region, **Ochapovskii**; Ukraine, **Miczyński, Voinstvens'kii & Kistyakiv'skii**; Franz-Joseph Land, **Parvovsghikov**; White Sea, **Spangenberg & Leonovich**.

U.S.S.R. Siberia.—Baikal Lake, Gusev, O. K.; N. Baikal, Gusev, O. K. (1); North of Central Siberia, Syroechkovskii; Ussuriland, Spangenberg; Central Yakutia, Larionov, G. P. (1); N. Yakutiya, Lower Lena, Kapitonov (1), Naumov & Labutin, Indigirka delta, Priklonskii, Beme & Uspenskii; N.E. Yakutiya, Uspenskii & others; N.W. Yakutiya, Gladkov & Zaletaev; Arctic Yakutia, Tiksi Bay, Gladkov; Commander Islands, Marakov; Taiga area, Toropanova & Dubinin; Yenisei Taiga, Syroechkovskii & Rogacheva; Kamchatka, Ostroumov; Barents Sea, Belopol'skii.

U.S.S.R. Caucasus.—Drozdov & Zlotin; N.W. Caucasus, Volchanetskii, Puzanov & Petrov; Little Caucasus, Zhordaniya; Black Sea area, Puzanov & Nasarenko; Georgia, Zhordaniya.

U.S.S.R. Kazakhstan and Middle Asia.—Kazakhstan, Gavrin & others; S.W. Turkmenistan, Shukurov; Uzbekistan, Meklenburtsev; Kazakhstan, Dolgushin; Winter fauna of Kurgajin, Krivitskii; Pamirs, Abdusalyamov; Tian Shan, Kuznetsov (1); Western Tian Shan, Kuznetsov; Tian Shan (Son-Kul and Chatyr-Kul lakes), Kydyraliev.

Poland.—Fischer, Dyrce, Luniak, Pomarnacki, Michalak; Barycz Valley, Murgasiewicz & Witowski; Carpathian Mts., Wolk.

Switzerland.—Capt. Magnanet, Roux, G., Strahm, Géroudet, Glutz.

Germany.—Ehrlich, Creutz, Hollerbach, Kinzelbach, Sunkel, Wobus, Englander & Johnen, Brinkmann, Toll, Reichert, Meise, Gothe, Milenz, Oehme, Ohler, Schildmacker, Schöner, Brandt & König; Bavaria, Haas, Heer, Lohmann, Wüst; Bislicher I., R. Rhine, Schnickers & Eberhardt; Borkum I., Feitzmeier; Föhr I., Kumerloeve (6); Heligoland, Breed; Mark Brandenburg, Steinbacher (1); Neusiedler See, Kinzelbach; Oberlausitz, Creutz (1); Osnabrück, Brinkmann (2); Rhein Valley, Neubaur & others; Saxony, Heyder (1), Schoennagel; Swabia, Steckermeier, Steinbacher (3); Tscheljabinsk Waldsteppe, Schneider; Würzburg, Schnabel.

Austria.—Erlach, Firbas, Kapla & Schuster, Klimsch, Schönbeck, Wruss, Sigl & Wruss, Warncke (3); Linz, Donner & Höninger; Tirol, Guerra (1).

Czechoslovakia.—Knobloch, Fiala, Matousek, Pikula, Turček.

Hungary.—Mountfort (2); Agárdi, Balát, Barthos & Kocsis, Béres, Beretz, Csaba, Erard, Gardonyi, Györi, Johansen, Keve, Lelovich, Máté, Nagy, Pátkai, Radetzky, Schmidt & Sterbetz, Schmidt, E., Sterbetz, Szabó, Vertse, Warga.

Rumania.—Brehme, Comsia, Pascovschi, Papadopol, Radu & others.

Yugo-Slavia.—Rucner, Sživka, Marcetic, Andrejevic, Tutman, Mikuska; Dalmatia, König.

Bulgaria.—Balát (1), Boev.

Italy.—Caterini, Moltoni, DiCarlo, Trettau, Warncke (2); Bergamo, Guerra.

Greece.—Bezzel (1), Géroudet, Raines; Corfu, Böhr; Rhode I., Ralfs.

Spain.—Balcalls & Maluquer, Jiménez, Maluquer, Balcalls & others, Maluquer & Pons, Ristow; Andalusia, Westernhagen.

Mediterranean.—Corsica, Moltoni; Mallorca, Nadal.

Middle East.—Armenia, Nicht; Turkey, Watson (9); Lebanon, Kumerloeve (5); Israel, Garry, Hovel; Aden, Ennion, H. E.; Iraq, Christensen, N. H., Marchant.

Japan.—Kuroda, Shibata.

North Africa.—Morocco, Naurols; Tunisia, Steinbacher, J.

Atlantic Islands.—Annobon, Gulf of Guinea, Fry; Canary Islands, Vicente; Tenerife, Ennion; Azores, Knecht.

AUSTRALIAN REGION and POLYNESIA

Australia Commonwealth.—Frith; New South Wales, Croucher; Illawarra District, N.S.W., Sefton & Devitt; Granite Is., Victoria, Gillham; Queensland, Amiet, Hopkins, Cassels, Bravery; Barrier Reef, Warham (2); Western Australia, Ford, Sedgwick, Serventy & Whittell, Slater; South Australia, Condon, Daley, Mack; Tasmania, Mollison.

New Zealand.—Andrew, Andrew & others, Bull & Boeson, Caughley, Challies, Dawson, Edgar, Falla, Stein, Stenhouse, Wodzicki, Fleming, Jenkins, McCann, Mackenzie, Winter, Williams, Wright; Little Barrier I., Turbott (1); Campbell I., Bailey & Sorensen.

Pacific Islands.—Christmas I., Anon.; Truk Is., Brandt, J. H.; East Solomon Islands, Galbraith; Heron I., Moulton; Ocean I. and Nauru, Pearson, A. J.; Clipperton I., Sachet; Satchet (1).

ETHIOPIAN REGION

West Africa.—Elgood & Donald; Mali, Malzy; Senegal, Morel & Roux; Senegal, Moul; Niokolo-Koba national park, Dekeyser; Ghana, Bowen & others; Nigeria, Rayner, Sibley, Smith, V. W.; Congo, Bont & Missonne, Herroelen; Tshuapa, Congo, Schouteden; Lake Leopold II, Congo, Schouteden (1); Angola, Traylor.

South Africa.—Broekhuysen, Clancey, Skead, Winterbottom, Mackworth-Præd & Grant; Lake Dow, Bechuanaland, Smithers; Zanzibar, Baird, D. A.

Central and East Africa.—Hall & Moreau, Williams, J.; Ethiopia, White; Kenya, Blencowe, Tennent; Katanga, Ruwet; Northern Rhodesia, Benson, Benson & White, Winterbottom, Tree; Southern Rhodesia, Smithers; Tanganyika, Fuggles-Couchman, Thomas, D. K.; Mozambique, Pinto.

Madagascar.—Benson (1), Benson & Pitman; Comoro Is., Benson (3).

ORIENTAL REGION

Indian Peninsula and Ceylon.—Ripley, Schwarz, S. S.; Sikkim, Ali; Ceylon, Deraniyagala, Peries.

Malaysia.—Singapore, **Hurrell**; Malaya, **Cairns**; Kuala Lumpur, **McClure** (1).

Indonesia.—Vietnam, **Tien**; Philippine Islands, **Amadon**, **Harrison**, **Ripley** & **Rabor**, **Salomonsen** (3); Java, **Hoogerwerf**; Borneo, **Vocus** (1); North Borneo, **Harrison**, **Orofio**; Papua-New Guinea, **Watson** & others.

NEOTROPICAL REGION

Central America.—Skutch; Caribbean, **Allen**, R. P.; Guatemala, **Land** (1); Panama, **Wetmore** (1).

West Indies.—Trinidad and Tobago, **Berlioz** (1); Netherlands Antilles, **Hundley** & **Mason**; St. John, Virgin Is., **Robertson**.

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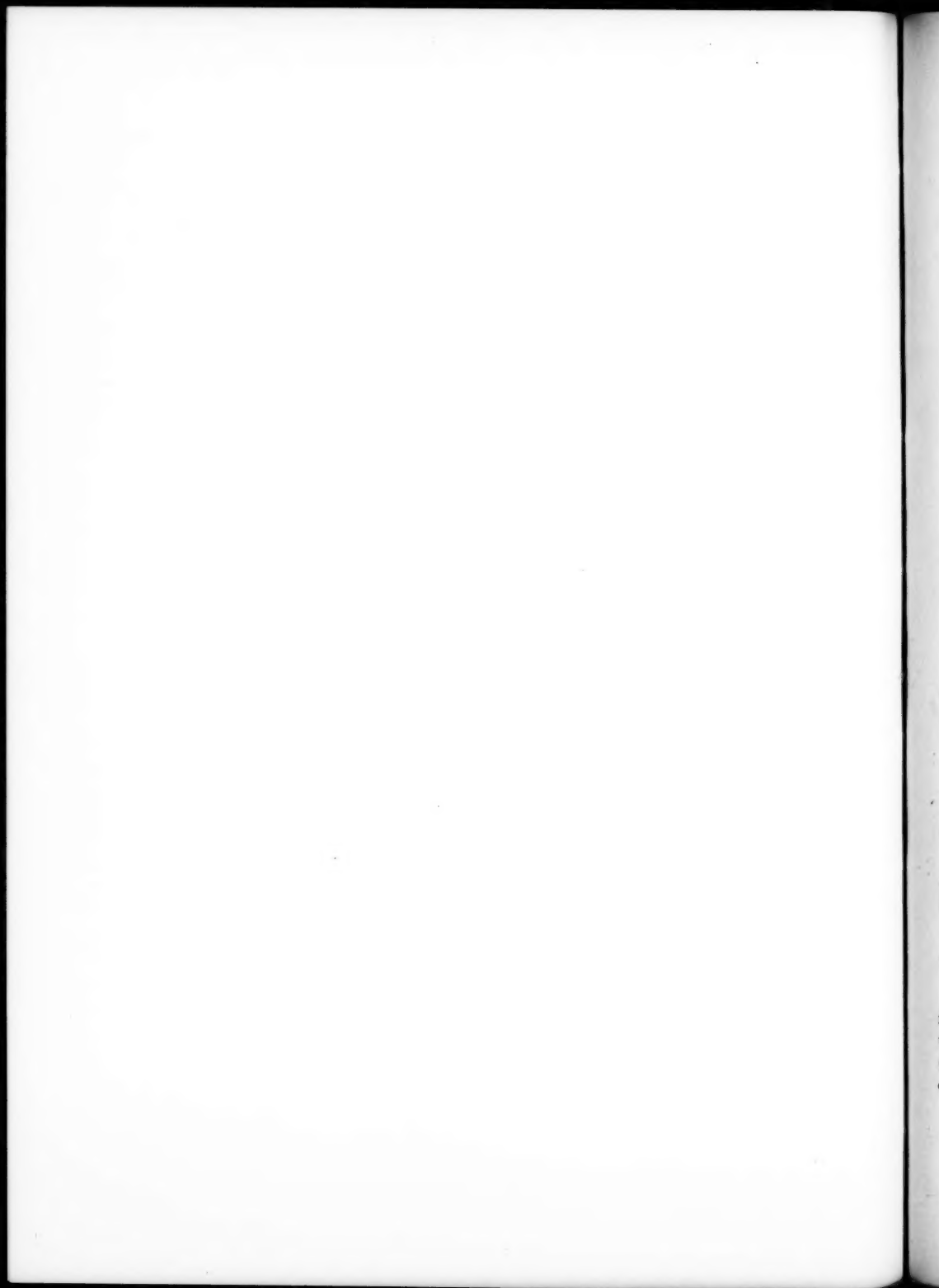
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